



2018 Annual Report to EPA

January 22, 2019

SUMMARY OF INFORMATION COLLECTED

During the tracking period beginning January 1, 2018 ending December 31, 2018 six bypasses were recorded at the wastewater treatment plant and eight SSO events were recorded. Included is a spreadsheet titled "Bypass-SSO Tracker" tabulating the events listed above.

CONFIRMED I/I SOURCES

During normal preventative maintenance crews have spotted and repaired thirty-three cleanouts. You will find this work performed on a spreadsheet titled "I & I Sources Confirmed". We also drafted a letter to provide to citizens with sewer deficiencies in the 2018 year. This letter references the section number of the Bolivar Municipal Code and explains what deficiencies have been found on said property. We have sent out approximately 19 letters this year, with 7 of them becoming into compliance. We recently just submitted 12 more letters to the citizens who still have yet to become into compliance.

PREVENTIVE MAINTENANCE ACTIVITIES

Our sewer department is made up of 4.5 crew members and has been busy this year cleaning, inspecting and repairing sewer mains. The results of their labor are as follows. Included in this report is a spreadsheet titled "Jetter Report 2018". This spreadsheet lists and describes all cleaning and inspection of sewer mains and manholes preformed during the reporting period beginning January 1, 2018 ending December 31, 2018. Crews cleaned 9.08 miles of sewer main (3.03 miles of said sewer main was root sawed); video inspected 2.04 miles of sewer mains and inspected approximately 122 manholes during this reporting period. Also included is a copy of the "Lift Station 2018" showing run times, any maintenance preformed on each lift station.

STATUS OF POA AND CIP

The City had accepted CIPP bids for the fiscal years of 2017 and 2018 You will find the bid packet for approximately 6,407' of lining to be completed in the 2017 year and 6,168' of 8" main to be completed in the 2018 year. This work was and will be completed by SAK. Our focus with this lining is to finish the 14x area, and start on the 10x area. Of the 6,407' that was completed in 2017, 2,832' falls in the 14x the flow area and the remainder is in the 10x the flow area. Also, during the lining process of 2017 we eliminated 59 taps, 16 of those taps had appeared to not have been capped. Of the 6,168' to be completed in 2018, 5,461' is located in the 10x the flow area and the remainder is areas we have CCTV and concluded to need attention. During the lining process of 2018, we eliminated 38 taps. The 10x area is our next highest flow area. Both lining projects (2017 & 2018) have been completed.

Crews had an extra busy year this year installing new infrastructure to connect South Town Utilities (MO-0121924) to the City's infrastructure (MO-0022373). We believe with time, connecting the two collection systems will be the best way to be able to help fund our infrastructure. You will see their work as follows. South town Sewer extension entailed the installation of approximately 7,400LF of 10" gravity sewer main, approximately 5,224LF of 8" force main, twenty-three new manholes, and one lift station. Water infrastructure was also installed during this time. In addition to the new infrastructure, crews worked on the replacement of existing manholes, taps and mains. Crews have removed/added manholes and taps. Our crews replaced approximately 103 LF of 8" main, two taps, replaced four manholes, removed 5 taps, removed one manhole and adjusted elevation a manhole. Also, we removed 13 septic tanks from MO-0121924.

The City will be making improvements to the West ditch at the Waste Water Facility. Smith and Edwards were awarded the bid to make the following improvements to the west oxidation ditch (newer of the two oxidation ditches). Improvements will include removal and installation of rotors, motors, gearbox, etc. The installation of these rotors will help with D.O. (dissolved oxygen). When installing these units, they will have a higher elevation for ease of maintenance and longevity. We are also installing conduit/etc. for possible future expansion (Mixer). Adjustable weir on effluent helps control levels. This project is expected to start by February 2019 and be finished by August 2019.

Olsson Associates has completed the engineering for the removal of lift station #3. This is an elaborate project in downtown Bolivar. The project will replace approximately 3,500 feet of 15" pipe and 80 feet of 8" pipe with replacement or installation of approximately 25 manholes. This will also alleviate a "bottle neck" effect that has a 10" and an 8" main leading to an 8" main. Upsizing the downstream main line from 8" to 15" will handle more flow. This will also be eliminating 8", 10" and 12" main. This work will also greatly reduce I & I in this area. In November 2017, the City had opened bids for this work to be completed and was awarded by council to Rosetta Construction in November. Rosetta Construction completed this project in approximately May 2018.

During this year the City partnered up with Missouri Rural Water Association (MRWA) to complete a sewer rate study. This study was completed in August 2018. Our rates were compared to other communities and included a small reserve for operations and capital projects. We intend to review our rate annually. The rate increase took in effect of 11/2019.

VIOLATIONS

We had nineteen "Violations" during the reporting period of January 1, 2018 to December 31, 2018. Attached will be two forms tabulating these violations; "WWTF Permit Violations Exceeding Limitations" and "Bypass-SSO Tracker".

List of Attachments

- Bypass-SSO Tracker 2018
- 2018 I&I Sources Confirmed
- Jetter Report 2018
- Lift Station Report 2018



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- WWTF Permit Exceeding Limitations 2018
- CIPP SAK 2018